

### Challenge 1

5
$\times 4$
add 4
$\div 3$
$\frac{1}{2}$ of this
times 4
- 1
divide by 3
times itself
minus 6



### Challenge 2

three
+ 4
times 2
- 5
$\div 3$
$\times 5$
plus 1
half of this
half of this
add on 6

### Challenge 5

nine
$\times 3$
+ 9
share into 6 equal parts
$\times 7$
3 more
$\div 9$
double it
$\times 7$
half of it



### Challenge 6

17
take away 5
$\div 4$
8 times this
double it
+ 1
divide by 7
$\times 8$
plus 4
$\frac{1}{2}$ of it

### Challenge 3

12
subtract 8
$\times 6$
+ 1
$\div 5$
plus 2
$\times 4$
+ 2
$\frac{1}{2}$ of this
- 6



### Challenge 4

36
1 less than this
$\div 5$
add on 3
times itself
half of this
- 2
divide by 6
$\times 4$
deduct 9

When you want  $\frac{1}{2}$  of something, split it into 2 equal parts. Divide by 2 like this:

$$\frac{1}{2} \text{ of } 8$$

4	4	$\frac{1}{2}$ of 8 is 4
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When you want  $\frac{1}{3}$  of something, split it into 3 equal parts. Divide by 3 like this:

$$\frac{1}{3} \text{ of } 15$$

5	5	5	$\frac{1}{3}$ of 15 is 5
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To find  $\frac{1}{4}$  of something, divide by 4, and so on.

How do you find  $\frac{1}{5}$  of something?

Yes, you divide it by 5.

$$\frac{1}{5} \text{ of } 20$$

4	4	4	4	4	$\frac{1}{5}$ of 20 is 4
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$$\frac{1}{5} \text{ of } 20 \text{ is } 4$$

### Challenge 7

thirty nine
+ 9
divide by 8
times itself
- 1
$\frac{1}{5}$ of this
$\times 4$
remove 1
$\frac{1}{3}$ of this
$\times 7$

**Challenge 8**

18
$\frac{1}{6}$ of this
+ 8
double it
- 1
$\frac{1}{3}$ of this
x itself
+ 1
$\frac{1}{2}$ of this
- 7

**Challenge 9**

thirty
one fifth of this
x 7
+ 3
÷ 9
times itself
+ 7
a quarter of this
plus 6
half of it

**Challenge 14**

33
add fifteen
$\frac{1}{4}$ of this
one sixth of this
x 9
times 2
6 more
$\frac{1}{7}$ of this
times 9
minus 5

**Challenge 15**

twenty three
deduct 8
x 2
increase by 9
÷ 3
double it
remove 1
÷ 5
times 8
one quarter of this

**Challenge 10**

thirteen
double it
ten more
$\frac{1}{4}$ of this
times itself
- 9
$\frac{1}{8}$ of this
+ 5
half of this
x 4

**Challenge 11**

16
plus seventeen
- 9
one sixth of this
x itself
double it
$\frac{1}{8}$ of this
+ 7
x 4
5 extra

**Challenge 12**

60
subtract 6
$\frac{1}{9}$ of this
+ 2
times itself
- 4
one quarter of this
$\frac{1}{5}$ of this
x 8
a half of this

**Challenge 13**

four
times by seven
+ 14
$\frac{1}{7}$ of this
plus nineteen
double it
+ 6
one eighth of this
+ 15
$\frac{1}{2}$ of this

What is your answer ?  
Check at the back of the book ?  
Record your time on the Record Sheet.